

Title (en)
PHARMACEUTICAL COMPOUNDS

Title (de)
PHARMAZEUTISCHE VERBINDUNGEN

Title (fr)
COMPOSÉS PHARMACEUTIQUES

Publication
EP 2569290 A2 20130320 (EN)

Application
EP 11725789 A 20110512

Priority
• US 33430610 P 20100513
• GB 201008005 A 20100513
• GB 2011000739 W 20110512

Abstract (en)
[origin: WO2011141716A2] The invention provides a compound of the formula (1): or a salt, N-oxide or tautomer thereof; wherein R1 is cyano or C1-4 alkyl; R2 is hydrogen or C1-4 alkyl; R3 is hydrogen or C1-4 alkyl; R4 and R5 are the same or different and each is selected from hydrogen, saturated C1-4 hydrocarbonyl and saturated C1-4 hydrocarboxy; R6 and R7 are the same or different and each is selected from hydrogen, halogen, CN, C1-4 alkyl and C1-4 alkoxy wherein the C1-4 alkyl and C1-4 alkoxy are each optionally substituted with hydroxy, C1-2 alkoxy or by one or more fluorine atoms; R8 is hydrogen or C1-4 alkyl; Q is an alkylene chain of 1 to 4 carbon atoms in length between the moiety Ar and the nitrogen atom N, wherein one or more of the 1 to 4 carbon atoms of the alkylene chain may optionally be substituted with one or two C1-4 alkyl groups, or wherein one carbon atom of the 1 to 4 carbon atoms of the alkylene chain may optionally be substituted with a group -CH2CH2- which together with the said one carbon atom forms a cyclopropyl group; m is 1, 2, 3 or 4; n is 0 or 1; and Ar is a monocyclic or bicyclic aryl or heteroaryl group of 5 to 10 ring members containing 0, 1, 2, 3 or 4 heteroatom ring members selected from O, N and S, the aryl or heteroaryl group being optionally substituted with one to four substituents R13 as defined in the claims. The compounds are inhibitors of Chk-1 kinase and are active against cancers.

IPC 8 full level
C07D 241/26 (2006.01); **A61K 31/4965** (2006.01); **A61P 35/00** (2006.01)

CPC (source: EP US)
A61K 31/4965 (2013.01 - US); **A61K 31/497** (2013.01 - US); **A61K 31/5377** (2013.01 - US); **A61N 5/10** (2013.01 - US);
A61P 35/00 (2018.01 - EP); **A61P 35/02** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07D 241/20** (2013.01 - EP US);
C07D 241/26 (2013.01 - EP US); **C07D 403/12** (2013.01 - US); **C07D 405/12** (2013.01 - US); **C07D 413/12** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2011141716 A2 20111117; **WO 2011141716 A3 20120301**; CN 103038221 A 20130410; EP 2569290 A2 20130320;
GB 201008005 D0 20100630; JP 2013526511 A 20130624; US 2013065900 A1 20130314; US 8716287 B2 20140506

DOCDB simple family (application)
GB 2011000739 W 20110512; CN 201180034468 A 20110512; EP 11725789 A 20110512; GB 201008005 A 20100513;
JP 2013509611 A 20110512; US 201113697743 A 20110512